MISSOURI BOTANICAL GARDEN
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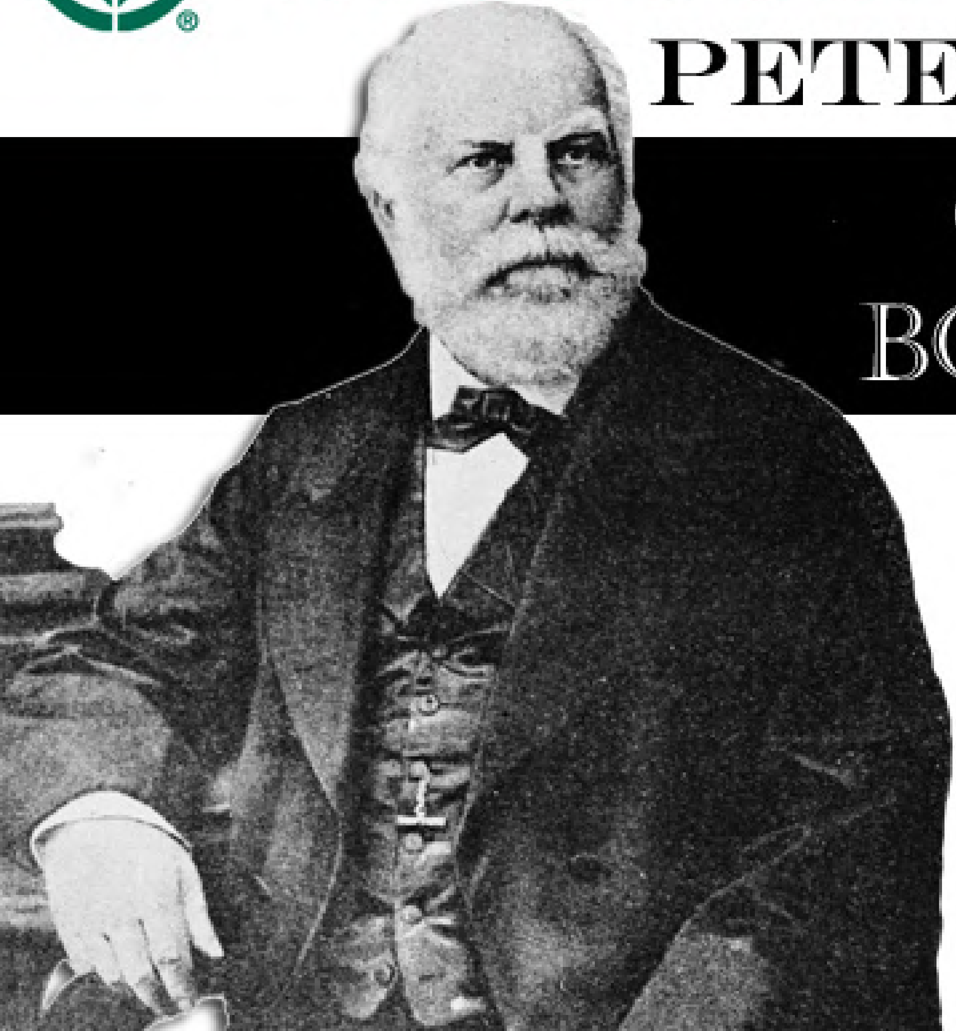

GEORGE ENGELMANN BOTANICAL NOTEBOOKS

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Loasaceae

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Aconitum boreale

H. B. Sp. 1824

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Bartonia multiflora Nutt. Sta Fe Plat Gamb

1-2 linear bracts; petals apparently straw

3/4 inch long; capsule 3/4 inch. white

seeds winged

leaves narrowed below

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T. S. Brandegee writes July 25 1875.

Mentzelia

Hog back Mentzelia
M. Chrysantha
On steep clayey slopes
biennial, single stem
branched upwards
flowers vespertine, late in summer
rosette of radical leaves
capsules full of seeds

Grape Creek Mentzelia
(M. multiflora)
on broken rock
perennial, many stems
flowers vespertine early in summer
no rosette
seeds less numerous

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Mentzelia — Brandegee Sept 1875

M. Chrysantha (Hogback) vespertine
biennial never perennial
La Plata Mts the same? very fragrant!

M nuda about Cañon vespertine
perennial at Cañon
biennial in Wet Mts Valley (the same ?)
in La Plata Mts straight not much branched,
5 feet high

M ornata biennial fragrant.

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Washington, D. C.,

SEPTEMBER 23d, 1875.

SIR:

A Session of the National Academy of Sciences *will be held in* PHILADELPHIA, *commencing Tuesday, November 2d,* 1875, *for Scientific business only.*

The place of meeting will be at the University of Pennsylvania, at 10 *o'clock A.M.*

The bulletin of the proceedings at the

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Jan 14 1875

Mentzelia chrysantha n. sp.

perennis (?) ramosissima caule albo ~~hispidulo~~ asperulo;
foliis ovatis s. lanceolatis, sinuato-dentatis
inferioribus versus basin angustatis, superioribus
late sessilibus

floribus sessilibus ~~oppositifoliis~~ .. ~~[illegible]~~
breviter petiolatis bracteolatis, saepius ~~[illegible]~~ pinnatifidis
pet
calycis laciniis lanceolato-subulatis
tubo longioribus
petalis fere 10 lanceolatis acutis longe mucronulatis aureis
capsula cylindrica s. ovata
sem. ovata compressa, varie plicata fere angulata
anguste marginata nec alata.

~~not~~

Barren limestone hills near Cañon City
on the Arkansas second shrubby Atriplex canescens etc.; with Frankenia, Junip. [illegible] etc.
Root long & fleshy branched, apparently perennial (not fusiform as in the biennial species.
1-2 feet high; leaves 1-3 inches long
1/4-1 1/2 inches wide, more or less
dentate, upper often even entire.
Flower 15-20 lines diam, open in direct
sunshine; petals 6-9 l. long 2-3 l. wide
usually less than 10, the inner with anthers
— ovary with 3 placentae with 2 series of ovules
Capsule 3 lines wide, in some specim. 5-6
~~in others~~ 10-12 lines long; seeds very

narrowly margined (+) see below

Evidently near * M. pumila as describ[ed] in Torr & Gr Flor. I. 535 but this is said to have small flowers, terminal (or 3) together & seeds "winged"

(+ Seeds similar to those of laciniatus but much smaller and not winged but barely margined.

The golden yellow colour of the ~~petals~~ gradually fades in drying or becomes brown so that after a time ~~they~~ it can scarcely be distinguished from that of the whitish Mentzelias; the same is the case in M. laciniatus, while the fl of M. oligosperm[a] retain their colour much better.

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Mentzelia March 1882	multiflora	nuda	nuda	multiflora var ? densiflora
	Grape Creek Cañon	Las Vegas Hot Springs	Hot Springs Carson City	Ute pass
leaves	sessile or subsessile sinuate	sessile sinuate, acute at base	sessile dentate	cordate-sessile obtusely lobe dentate
bracts	lanceolate 1 or 2 at base of calyx	2–3 lanceolate sinuate toothed	several broad lanceolate dentate, one with other on tube	several, subulate
lobes of Calyx	triangular lanceolate acute	linear subulate	triangular lanceolate	triangular lanceolate
Tube	pubescent	rough pubescent	densely pubescent	pubescent
fl.	1½ inch diam cream white vespertine	cream white 1½ inch diam.	cream white vespertine 3"	2¼–2½ in. cream white vespertine crowded
petals	10 nearly equal obtusish	5 obtusish	10 equal acutish	10 unequal (alternate smaller narrower obtusish
stamens	outer broad, fertile about 20	outer 5?: very broad, fertile	about 10 broad steril outer stamens	outer broader fertile
anthers	~~oblong~~ linear smallest 1 ~~line~~ mm long	oblong 1.2 ~~lin~~ mm long	linear 1.8 ~~lin~~ mm long	~~oblong~~ linear 2 ~~l~~ m long
capsule	3/4–1 inch long	1–1¼ inch	3/4 inch	
seeds	rather small, orbicular broad winged	nearly orbicular, large, broad winged rough	broadly obovate broadwinged	

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Mentzelia March 1882

	ornata, Pueblo	pumila yellow Ute Pass
leaves	ovate lanceolate sessile obtuse at base	sinuate toothed, petioled or attenuate at base, linear–lanceolate
bracts	numerous, pinnatifid, several on calyx tube	1 or 2 subulate, sometimes somewhat distant from base of calyx
lobes of Calyx	lanceolate long acuminate	lance subulate
tube	hoary	rough
flower	4–4½ in diam cream white vespertine	1½ inch diam. yellow vespertine
petals	broad oval, attenuate at a claw, acuminate–cuspidate 10, (nearly equal) whitish, ~~cuspid~~ or 5 inner a little narrower	acutish or cuspidate about 10 nearly equal ~~ciliate towards tip~~
stamens	all equal, no broader filaments	outer very broad petaloid fertile
anthers	large 2¼ mm long. linear–oblong	1.3 mm oblong–linear
capsule	1½–2 inches	about ¾ inch
seed	obovate, narrow winged	small, ovate–orbicular broad-winged

all species have petals ciliate near tip

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Mentzelia laevicaulis

few sinuate pinnatifid bracts under calyx

leaves sinuate dentate
or sinuate dentate

calyx tube 3/4 to 1/2 inches, lobes 1–1½‴

petals 5. 2 to 3 inches long
6–9 l. wide yellow

no broad or dilated filaments

M. undulata n. sp.

perhaps = laevicaulis

1 or 2 lance linear, rarely dentate bracts

leaves 5–6" long 1–1½ wide, obtusely
lower
undulate – lobed

calyx tube 4‴ long, lobes 8–10 lines

petals not quite 2 inches long
8 lines wide

no dilated filaments

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Dr. & Mrs. Boisliniere,

request your presence at the marriage ceremony

of their daughter,

Marie,

to

Mr. Lawrence V. Cartan,

Wednesday Afternoon, February Fifteenth,

at half past four o'clock,

Church of the Immaculate Conception,

St. Louis.

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